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PDF 998 A Series  
Engine Tuning

# **998 A Series Engine Tuning**

998 engine 1275 head  
- Page 1 - Classic Minis  
- PistonHeads How to  
tune your 998cc A-  
series engine | | Honest  
John Engine - 1098,  
initial tuning potential  
BMC A-series engine -  
Wikipedia Mini Spares  
Article - Engine - 998  
tuning, bolt-ons (stage

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## PDF 998 A Series

### Engine Tuning

... Classic Mini Engine  
Performance  
Enhancement - A DIY  
Guide Racing Mini  
Engine | Mini Racing  
Engine | Swiftune  
Classic Mini DIY - 998  
Engine Rebuild Series  
Calver Special Tuning,  
based in Malton, North  
Yorkshire, Engine - 998  
tuning, bolt-ons (stage  
one) Austin Mini  
Cooper Engines - 1098,  
Initial Tuning Engine -  
998 tuning, further  
options - Calver ST

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### Engine Tuning

998 A Series Engine  
Tuning Engine - 998  
Tuning Further Options  
- Mini Mania Fast Road  
A-Series Engines -  
Longspeed - The Mini  
Classic ... Project Small  
Bore - Russell  
Engineering

### **998 engine 1275 head - Page 1 - Classic Minis - PistonHeads**

The 998 A-Series  
powers Minis and  
Metros in particular.

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## PDF 998 A Series

### Engine Tuning

The book's advice can also be used to uprate Midget/Sprite 948cc engines to 998cc. Complete guide to obtaining maximum power with reliability from the popular 998cc engine.

### **How to tune your 998cc A-series engine | | Honest John**

Engine - 1098, initial tuning potential The 1098 (1100) engine

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## PDF 998 A Series

### Engine Tuning

has had a lot of bad press over the years - largely because of early experiences when trying to tune the motor brought about problems with the then standard components available - they simply were not up to taking any real punishment as experienced in racing.

### **Engine - 1098, initial tuning potential**

Classic Mini DIY - 998  
Engine Rebuild Series

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### Engine Tuning

PART 2 - Duration: ...  
tuning the A-Series  
engine - Duration: ...  
Classic Mini DIY - 998  
Engine Rebuild ...

### **BMC A-series engine - Wikipedia**

16 Swiftone run cars,  
32 Swiftone engines, 5  
races and 20 team  
members. Goodwood  
Members Meeting is  
always a busy event  
for team Swiftone but  
this year the pressure  
was on with double the

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### Engine Tuning

amount of Swiftune engines and cars competing in the highly anticipated Betty...

#### **Mini Spares Article - Engine - 998 tuning, bolt-ons (stage ...**

Calver Special Tuning is a specialist in the classic A-series engine, mainly for Minis but also for all in-line applications such as Midget, Sprite, A30, A40 etc.

## **Classic Mini Engine Performance Enhancement - A DIY Guide**

A few years back Russell Engineering built a small bore project motor and wrote an article for The Mini Experience Magazine. Below is part one of the article and in the following weeks we will be posting the next two parts.



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## **Racing Mini Engine | Mini Racing Engine | Swiftune**

Exchange Cylinder head/Zylinderkopf All orders on modified cylinder heads are exchange base. The exchange head must be degreased, fully dismantled, no valves, no studs no bolts.

## **Classic Mini DIY - 998 Engine Rebuild Series**

Improve the  
*Page 9/19*

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Performance of Your Classic Mini Engine - a DIY Guide Here at Mini Mania we know speed. Our specialists have decades of racing and engine building & tuning experience and would be happy to assist you in improving your Mini's speed and performance! Give us a call at 1-800-946-2642 and let's chat.

**Calver Special  
Tuning, based in**

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## **Malton, North Yorkshire,**

The only sensible option is a standard head modified to 'stage three' spec, or a 12G295/12G206

Cooper head. Using a BBU 12G940 casting is an option - but not terribly practical (see 'Engine - 998 tuning, fitting a 1275 head').

The much coveted 12G295/12G206 heads are all-but non-existent realistically now.

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## PDF 998 A Series Engine Tuning

### **Engine - 998 tuning, bolt-ons (stage one)**

How to Power Tune the 998cc A-series Engine is packed with hints and tips for making this little BMC/BL/Rover lump a bit more potent. Written by engineer and professional race engine builder Des Hammill, it includes expert building tips and techniques.

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Engine Tuning

**Austin Mini Cooper  
Engines - 1098,  
Initial Tuning**

998 engine 1275 head.  
... The Mini 7 race  
series use this basic  
configuration and with  
only a single carb and  
standard MG Metro  
cam the engines  
achieve 85+ hp DIN at  
approx 7500 rpm with  
excellent ...

**Engine - 998 tuning,  
further options -  
Calver ST**

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## PDF 998 A Series

### Engine Tuning

Austin Mini Cooper Engine - 998 Tuning Further Option To improve engine output, you need to increase the engine's 'breathing' ability. The stage one kit deals with all the easily bolted-on external parts, and represents the best increase for investment. From here on in the power increases will cost commensurately more money.

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### Engine Tuning

#### **998 A Series Engine Tuning**

Filing one was no good as it's impossible to file two the same, let alone multitudes! The new ignition setting was duly noted also. The kit was then tried on several other 998 Mini with different engine specs/ages, and all results recorded and compared. The stage one kit gave essentially

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## PDF 998 A Series

### Engine Tuning

identical improvements on each engine.

#### **Engine - 998 Tuning**

#### **Further Options -**

#### **Mini Mania**

Following is an initial look at what it will do with a little modification - the results compared directly with it's smaller brother the 998 for illustration of the potential. Abridged History When the Mini was first conceived it



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### Engine Tuning

utilised a de-stroked version of the then quite remarkable 948cc A-series engine.

### **Fast Road A-Series Engines - Longspeed - The Mini Classic ...**

The kit was then tried on several other 998 Mini with different engine specs/ages, and all results recorded and compared. The stage one kit gave essentially identical improvements on each engine. Power

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### Engine Tuning

Gains. Using figures when discussing power gains is pointless. The improvements entirely depend on each individual engine's output prior to tuning.

#### **Project Small Bore - Russell Engineering**

A petrol version of this modified engine was 'reverse-engineered' for use in the Mini Tractor whilst retaining parts commonality with the diesel variant,

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### Engine Tuning

rather than using a standard petrol A-series unit. The diesel A series was also sold as a marine engine under the BMC name alongside the diesel B-series engines. 848

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